

Indico – Present and Future

3rd May 2011

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- What is Indico?
- Indico @ CERN
- Overview of Indico's evolution
- Future: where is Indico going?
- Collaborate with Indico

Event organization web app:

- All kind of events: simple to complex



Data repository:

- long term archival

Booking service:

- Rooms
- Videoconference
- ...

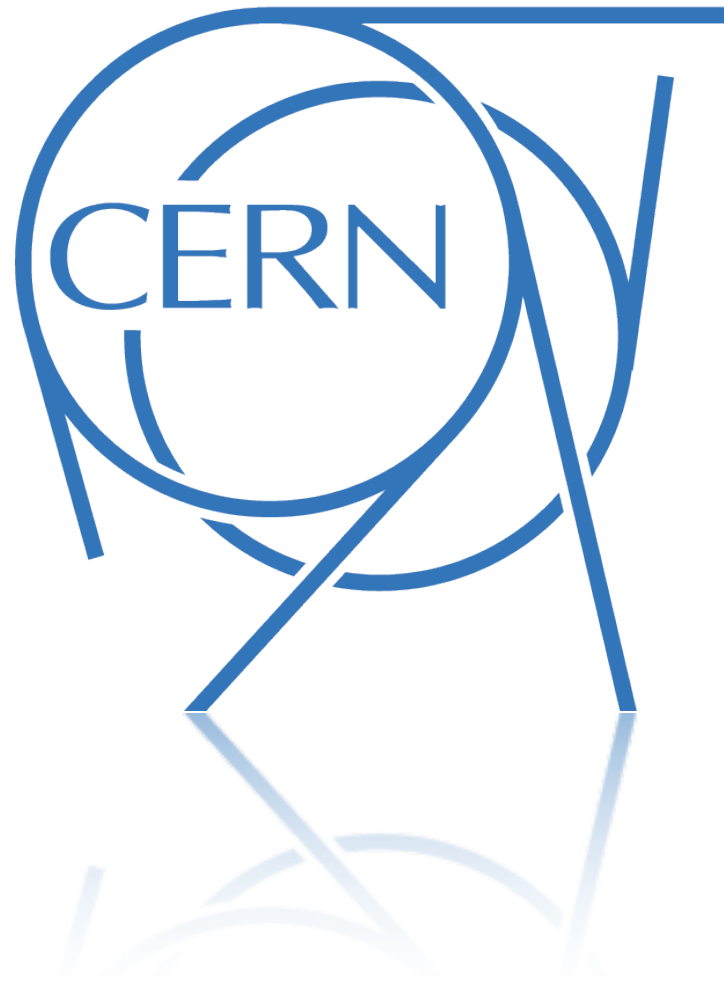
What is Indico?

- Started as an European Project (2002):
 - First time used in 2004

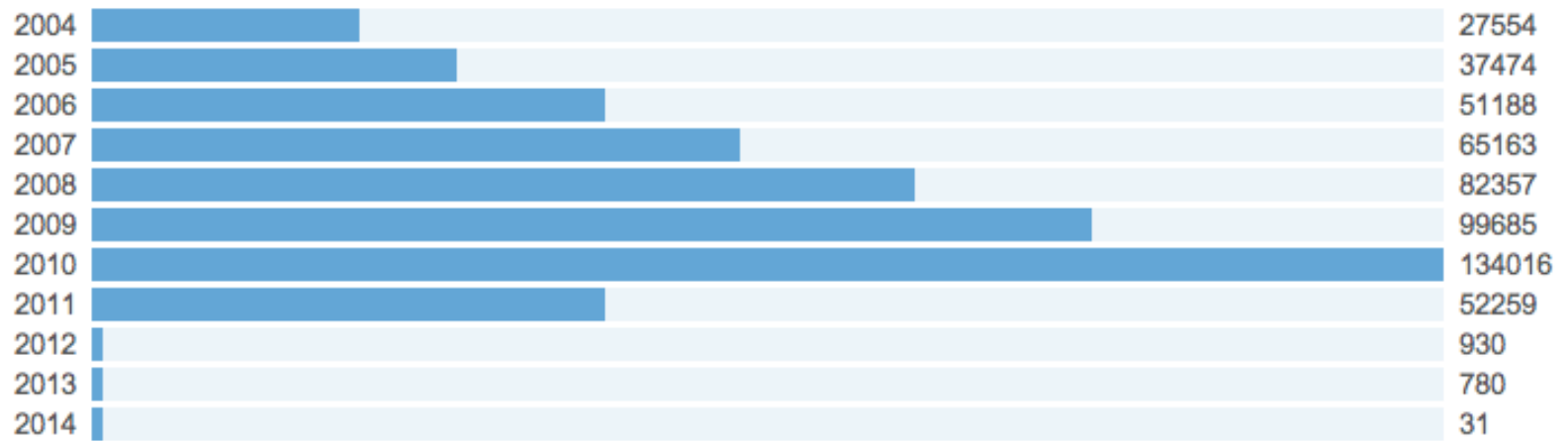


- In production at CERN: <http://indico.cern.ch>
- And in > 90 institutions around the world:
 - GSI, DESY, Fermilab,...
- Free and Open Source





- <http://indico.cern.ch>
- Every year more and more events
 - More than 130.000 events
 - More than 590.000 presentations
 - More than 770.000 files
 - Around 10.000 visitors per day



Total: 592064



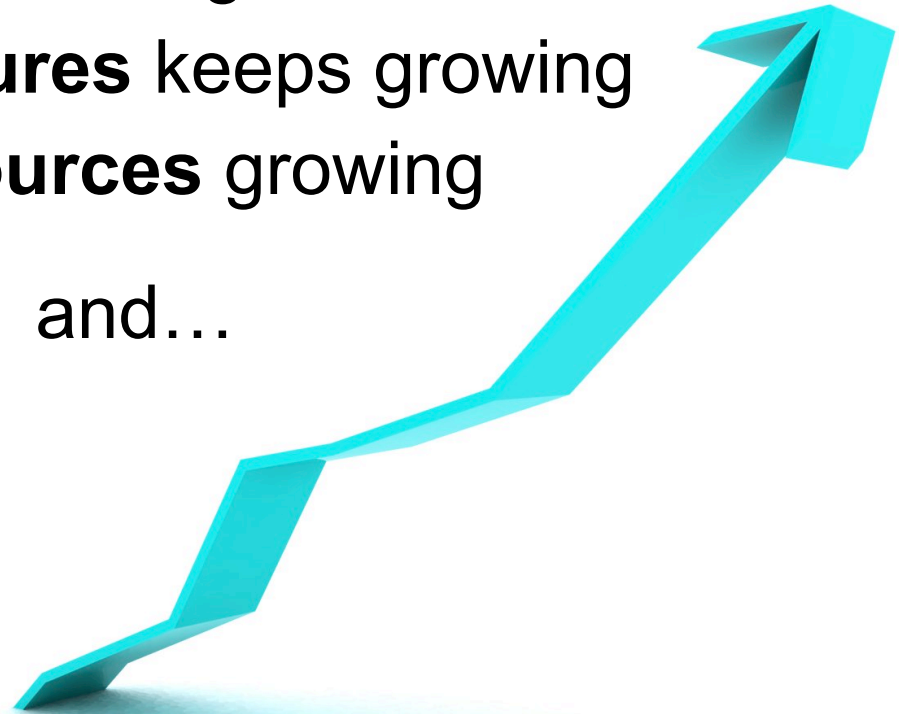
- Hardware (SLC5, Quattor):
 - 1 Load Balancer
 - 2 workers
 - 1 database server
- 3rd party services
 - File storage: AFS
 - Conversion service - Neevia: <http://cdsconv.cern.ch>
 - Search provided by Invenio: <http://invenio-software.org>
- Software:
 - Python 2.6, Javascript, ZODB, and many other libs.
 - Apache + WSGI
 - Git as SCM, sync with SVN at CERN
- Team (currently):
 - 2 LD staff, 1 fellow, 2 technical students, 1 internship student
- We do:
 - Support Indico users at CERN (3rd line support)
 - Maintain Indico service
 - Development and improvement Indico project
 - Provide training to users regularly
 - Provide best-effort support to external installations



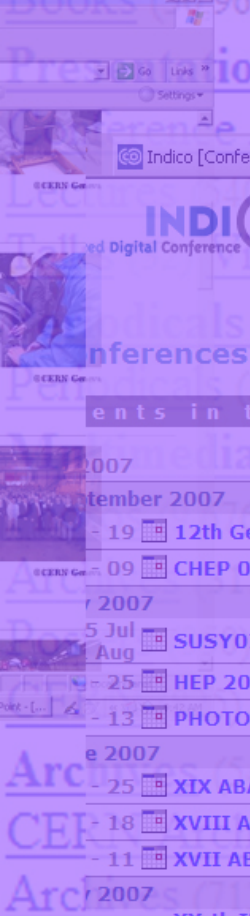
Indico's evolution



- Since **2004** indico has been growing non-stop
- Number of **users** has grown
- Number of **features** keeps growing
- Necessary **resources** growing
- Need to **stop** and...
- ...improve
- ...consolidate



- Last 3 years, we did re-design Indico
- Highest priority:
 - Usability
 - Performance
- Of course, in parallel:
 - Many new features
 - Impossible to fully stop adding features



- 1st Goal: **Usability** – 2008..2010
 - Done several usability studies
 - Not just a change of face
 - ...but taking care of little details
 - Main problems solved - still work to do....



Developer watching videotape of usability test.

category | view: Indico style | manage | LOCAL: Europe/Berlin | login

Test Computing Meeting

Monday 27 July 2009
from 09:00 to 12:30 Europe/Berlin

Monday 27 July 2009

- 09:00 Talk 1 (20') Bu Ba
- 09:20 Talk 2 (20') Bi Bi
- 09:40 Talk 3 (20')
- 10:00

Filter More | Europe/Zurich | English | Logged in as Gonzalez Lopez, J. | Login as... | Logout

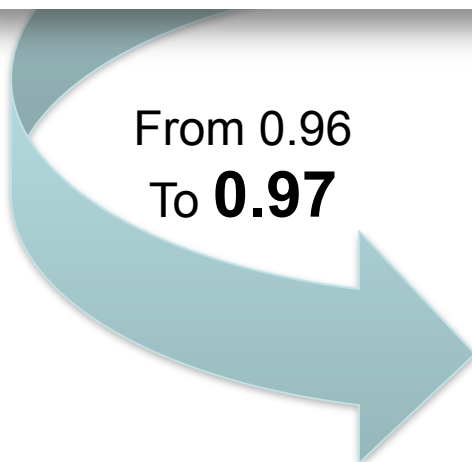
IT-UDS group meeting

chaired by Tim Smith (CERN)

Tuesday 19 April 2011 from 09:00 to 11:00 (Europe/Zurich) at CERN (513-1-027)

Tuesday 19 April 2011

- 09:00 - 09:05 Introduction 05' Speaker: Tim Smith (CERN)
- 09:05 - 09:25 State-of-art for python template engines and implementation in Indico 20' Speaker: Marius Damarackas (Vilnius University) Material: Slides
- 09:25 - 09:45 Managing Copyrights in Invenio 20' Speaker: Jurga Girdzijauskaitė (Faculty of Mathematics and Informatics-Vilnius University) Material: Slides
- 09:45 - 10:05 Managing Book circulation in Invenio 20' Speaker: Jaime Garcia Llopis (Universitat Jaume I-Unknown-Unknown) Material: Slides



From 0.96
To **0.97**

- 2nd Goal: **Performance** – 2010..now
 - Indico core has been growing a lot
 - No care about other 'non-visible' features
 - Impact on performance
 - Researched about reasons for bad performance
 - Main features have been **optimized** remarkably
 - Event overview
 - Timetable filtering
 - Navigation
 - Edition
 - Room booking
 - Listings: abstracts, registrants, contributions, ...
 - ...

Indico's evolution



From 0.97
To **0.98**



Still not as fast as Speedy...
Still work on going

- Apart from usability and performance:
 - We have improved the existing **modules**:
 - Current features:



- And we have added **features**:
 - Room booking

The screenshot displays the Indico web interface for room booking. At the top, there is a navigation bar with the Indico logo and user information (Europe/Zurich, English, Logged in as Gonzalez Lopez, J., Login as..., Logout). Below this is a secondary navigation bar with links: Home, Create event, Room booking, Administration, My profile, and Help.

The main content area features a map of the Meyrin campus with numerous red location pins indicating available rooms. Above the map, there are filters for different points: Meyrin (144), PREVESSIN (20), POINT 1 (12), POINT 2 (2), POINT 5 (1), POINT 6 (1), and POINT 8 (1). The map includes a search bar and map controls (Map, Satellite, Hybrid, Terrain).

On the left side, there is a sidebar menu with options: View Rooms, Search rooms, Map of rooms, My rooms, View Bookings, Book a Room, Search bookings, Calendar, My bookings, My PRE-bookings, Bookings in my rooms, and PRE-bookings in my rooms.

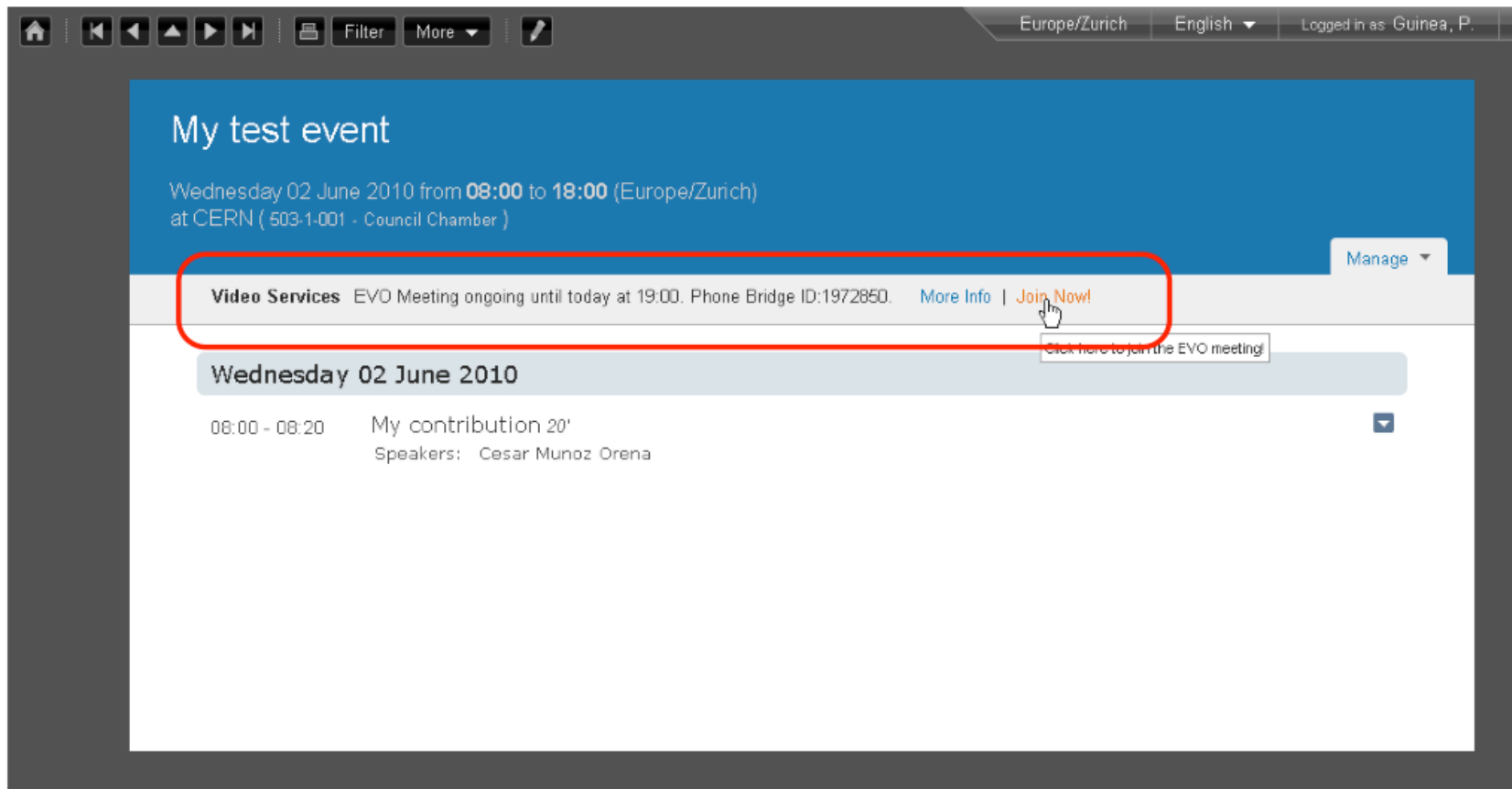
On the right side, there is a search criteria panel with the following options:

- Building: [input field]
- Around the building
- Floor: [input field]
- Description: [input field]
- Min. capacity: [input field]
- Video conference
- Only public rooms
- Auto confirm
- Only mine
- Is active
- Is available:
- From: 21/3/2011
- To: 21/3/2011
- Hours: 08:30 - 17:30
- Type: Single day
- [Filter] [Reset]
- Total 176 room(s) / 68 building(s)

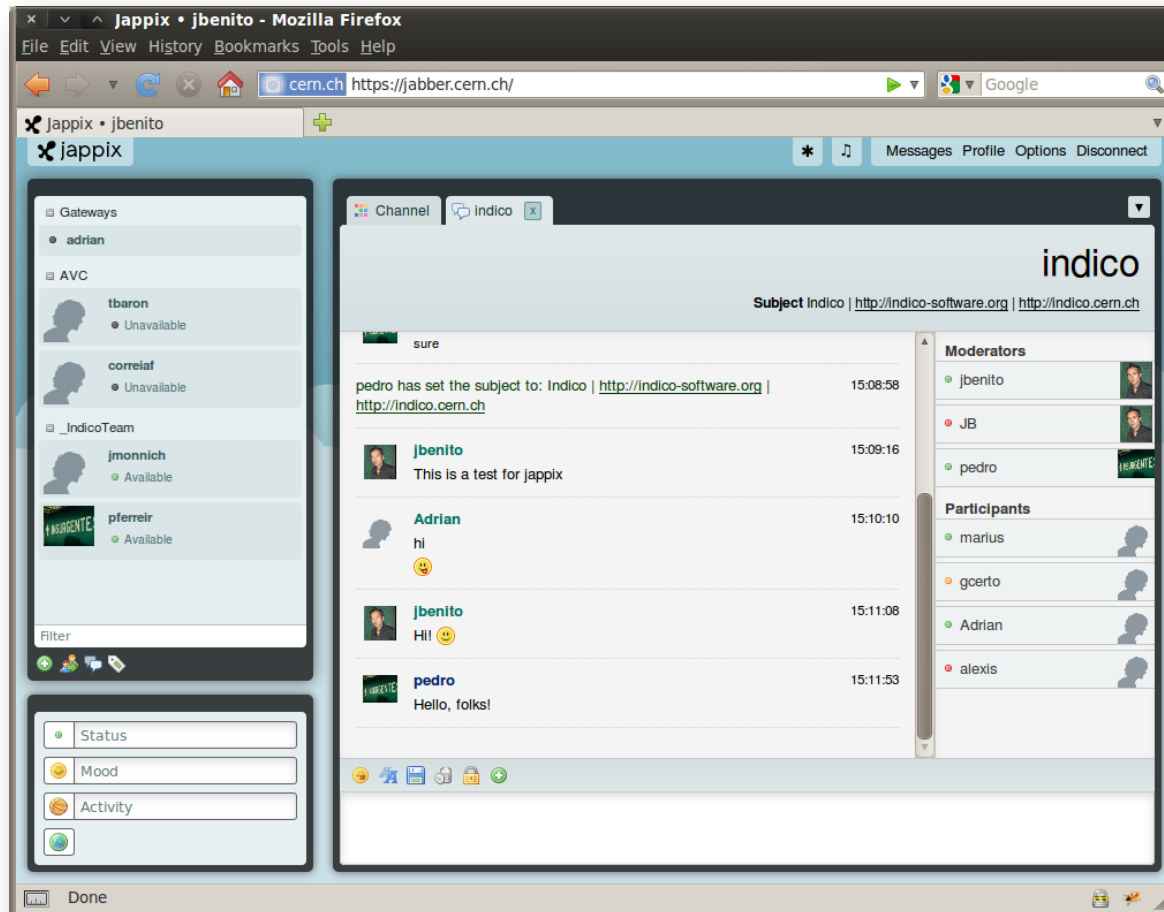
- And we have added **features**:
 - Video services integration = common interface



- On the way we have added **features:**
 - Video services integration



- On the way we have added **features:**
 - Chat room management



- On the way we have added **features:**
 - Paper reviewing

The screenshot shows the 'Paper Reviewing' section of the Indico interface. It includes a navigation menu with 'Main', 'Material', 'Sub Contribution', 'Protection', 'Tools', and 'Paper Reviewing'. Under 'Paper Reviewing', there are sub-sections: 'Assign Team', 'Judgements', 'Material to Review', and 'History'. A message states: 'The reviewing mode chosen for this conference is: Content and layout reviewing'. Below this, there are three sections: 'Layout judgement details', 'Content judgement details', and 'Final Judgement', each with specific review information.

Layout judgement details ⓘ

Layout judgement: Accept, submitted on Mon 14 Mar 2011 at 18:30
 Criteria Evaluation: Is the background color white?: Agree
 Layout Reviewer: GUINEA, Pig

Content judgement details ⓘ

Content judgement: Accept, submitted on Mon 14 Mar 2011 at 18:30
 Answered questions: Is the paper interesting regarding the field of the conference?: Weakly Agree
 Content Reviewer: GUINEA, Pig

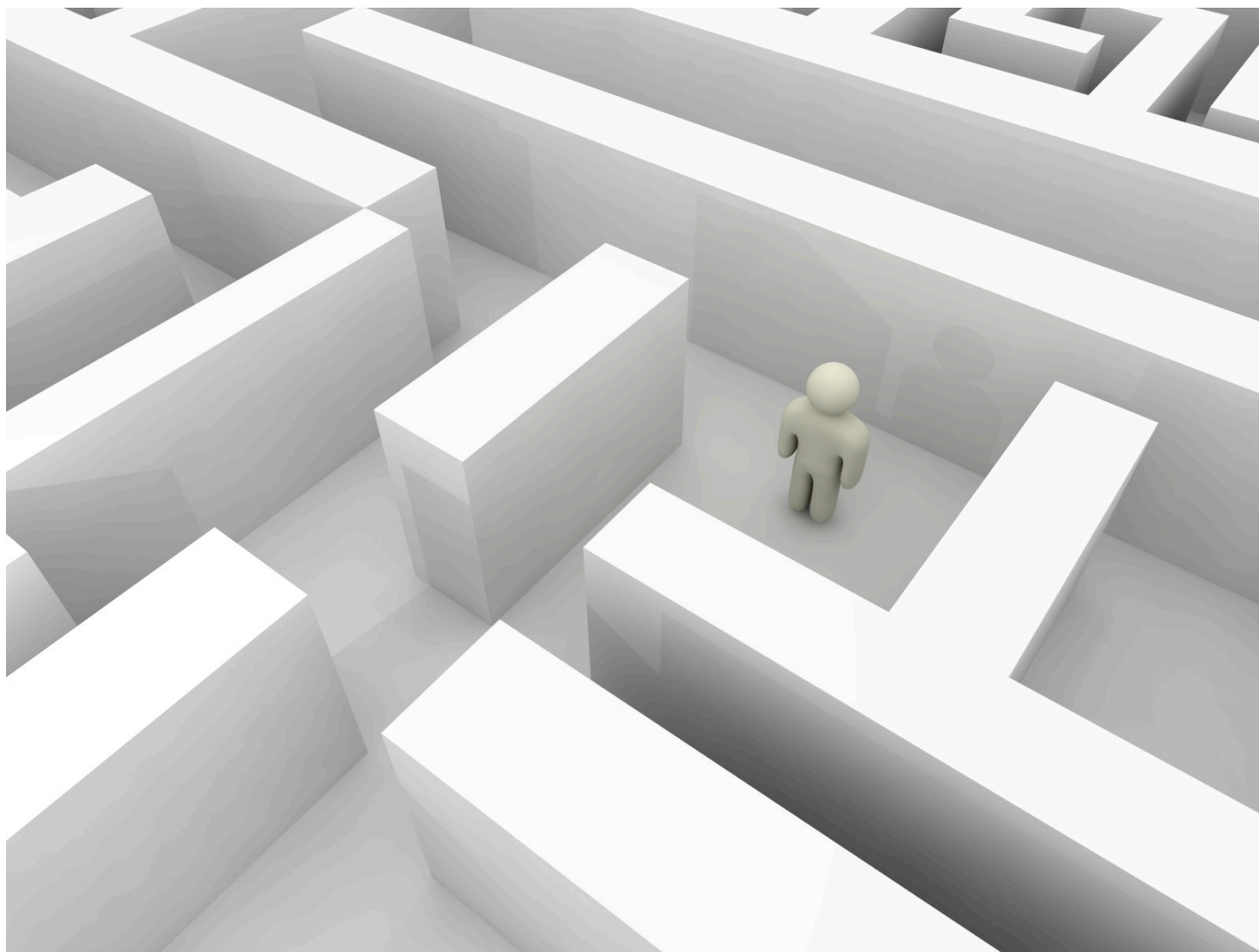
Final Judgement ⓘ

Reviewing questions: Is the paper interesting regarding the field of the conference?: Agree
 Comments: No comments given.
Judgement: Accept



- Features:
 - **Lifecycle of conference management**
 1. Fully customizable web portal
 2. Programme definition
 3. Call for abstract and reviewing
 4. Registration, e-payment, badge creation
 5. Agenda creation
 6. Submission of slides and papers
 7. Paper reviewing
 8. Evaluation survey
 - **And more:**
 - Room booking: Map of rooms
 - Common interface for other tools:
 - Video services integration: EVO, Vidyo, MCU, ...
 - Webcast/Recording request workflow
 - Chat room integration
 - I18n: English, French, ...
 - Timezone
 - Livesync: push updates to Invenio, CERN Search, ...

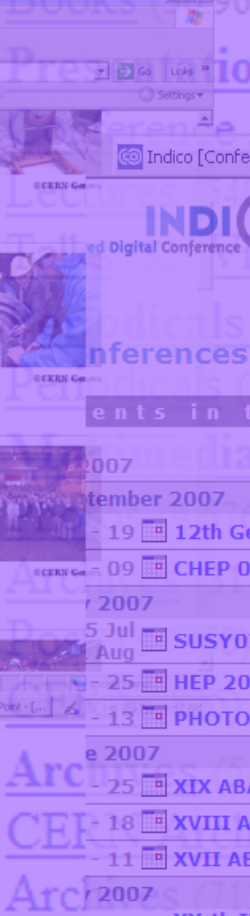
Where is Indico going?



- Cover the whole lifecycle of events
 - Proceedings
 - Export data
- Provide a good **QoS**
 - Reliable
 - Responsive
 - Usable

Where is Indico going?

- **Indico 1.0**
- Provide a usable, good performing and comprehensible development framework
- Looking for a highly stable Indico
- We are improving:
 - Plugin framework
 - Re-designing parts of the core of Indico
 - Keep improving our Test Framework
 - Doc: <https://indico-software.org/wiki/Documentation>
- We are adding:
 - Timetable drag&drop
 - Livesync: push updates to Invenio, CERN Search,...
 - Importer: fetch data from Invenio,...to Indico timetable
 - Export and more...



Collaboration



- Indico is **free** and...

Open
Source Code



- Easy to **download**: git clone
 - <http://indico-software.org/wiki/Download>
- Easy to **install**:
 - `$ easy_install cds-indico`

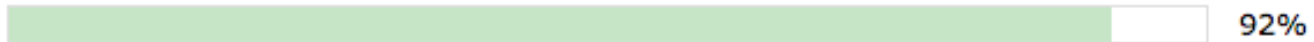


- Indico team = **small**
 - User community = **big**
-
- Already some contributions:
 - **Timezone**: Jim Fromm – Fermilab
 - **WebEx**: Kevin Flannery – Fermilab
 - **LDAP**: Martin Kuba – EGI
 - **Epayment**: EPFL

Roadmap

Milestone: v0.97.1

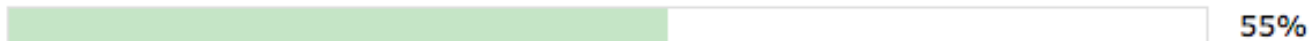
No date set



Number of tickets: closed: 35 active: 3 Total: 38

Milestone: v0.98

No date set



Number of tickets: closed: 114 active: 93 Total: 207

- Still many tasks and projects in the waiting queue
- We are happy to **help** and specially...
-to integrate your **contributions**
- More: <https://indico-software.org/wiki/Dev/Collaboration>



- Best effort support
 - E-mail:
 - project-indico-administrators @ cern.ch
 - Jabber:
 - Chat room: indico
 - Server: conference.jabber.cern.ch
- Project web site:
 - <http://indico-software.org>
 - Doc, roadmap, code, tickets, status,...

Thank you – Questions?

